KONSTANTINOV, G.N.; KONSTANTINOVA, L.S.; FILATOV, V.A.

Determining the zero point of the level of magnetic anomalies.

Geol.i geofiz. no.5:91-92 *61. (MIRA 14:6)

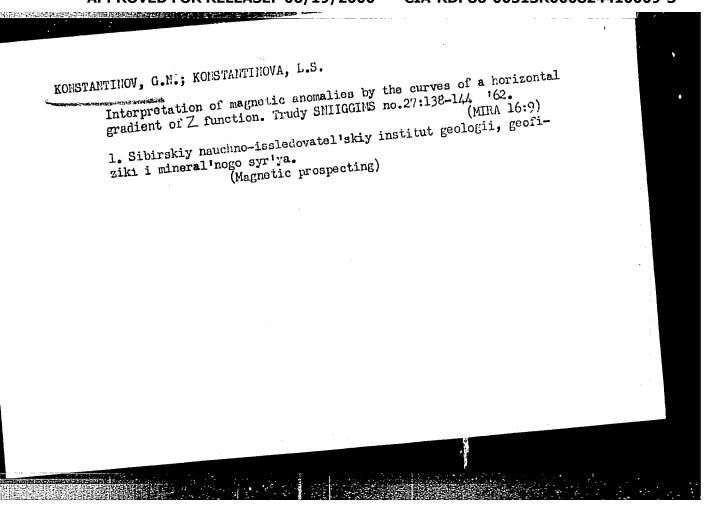
KONSTANTINOV, G.N.; FILATOV, V.A.

Estimating the prospects for magnetic anomalies. Geol. i geofiz. no.6:116-119 '63. (MIRA 19:1)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya, Novosibirsk. Submitted June 16, 1962.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410009-3



KONSTANTINOV, G.N.; KONSTANTINOVA, L.S.

Calculation of pseudogravitational anomalies and the determination of the angle of slope in magnetization vector. Trudy SNIIGGIMS no. 27:165-170 '62. (MIRA 16:9)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.

(Magnetic anomalies)

BUCHATSKIY, Ye.G.; YENIKEYEV, R.N.; BEZRUKOV, V.M.; KONSTANTINOV, G.V.; SHEVYREV, S.A.; MEDVEDEV, I.I.

Calculated seismicity of single-story framed industrial buildings.

Prom. stroi. 41 no.6:35-37 Je '64. (MIRA 17:9)

sov/85-58-9-10/33

AUTHORS:

Konstantinov, I., Chairman, Krayevoy komitet DOSAAF

(DOSAAF Kray Committee) and Maslennikov, V., Secretary,

Kraykom VLKSM (VLKSM Kray Committee) (Krasnoyarsk)

TITLE:

Cooperation (Sodruzhestvo)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 9, pp 6-7 (USSR)

ABSTRACT:

The authors tell of the cooperative effort made by the DOSAAF and VLKSM organizations in Krasnoyarskiy kray toward the promotion of aviation sports and model-aircraft building. The result was a rapid increase in aviation sports activities throughout the vast areas of

Krasnoyarskiy kray. There are 2 photographs.

ASSOCIATION: Krayevoy komitet DOSAAF (DOSAAF Kray Committee) and Kraykom VLKSM (VLKSM Kray Committee), Krasnoyarsk.

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824410009

The city of Gorna Oryakhovitsa. p. 1. (Geografiia, Vol. 7, no. 4, 1957. Sofiia, Bulgeria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957, Uncl.

KONSTANTINOV. Iliya

Country: Bulgaria

Academic Degrees: not indicated

Affiliation: not indicated

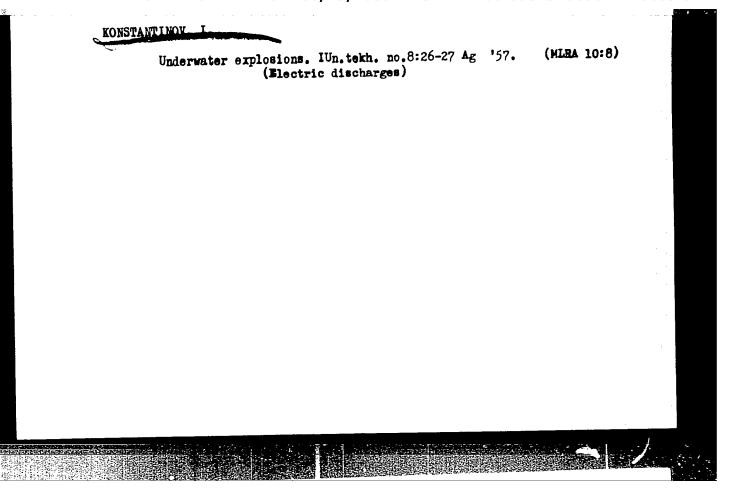
Source: Sofia, Geografiya, No 1, 1961, pp 8-9

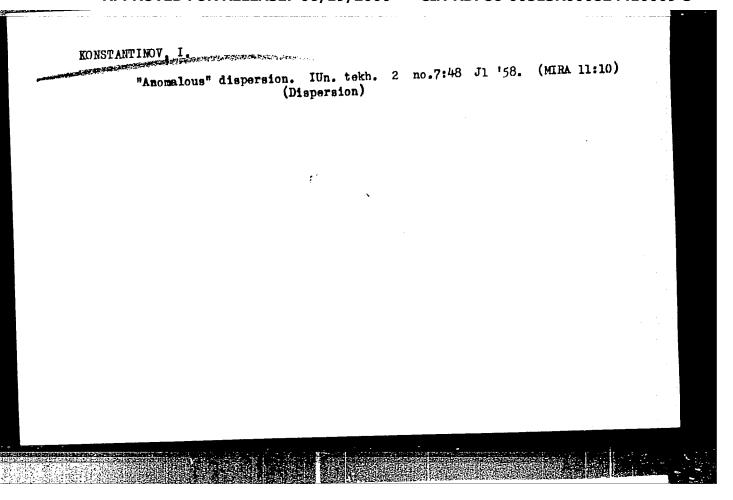
Data: "State Sugar Plants in Gorna Oryakhovitsa."

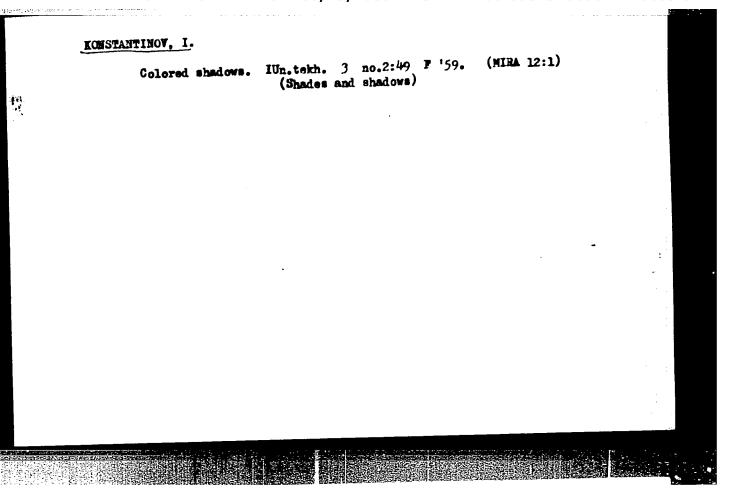
VAKARCHUK, A.; KONSTANTINOV, I.; TROFIMOVA, L., red.

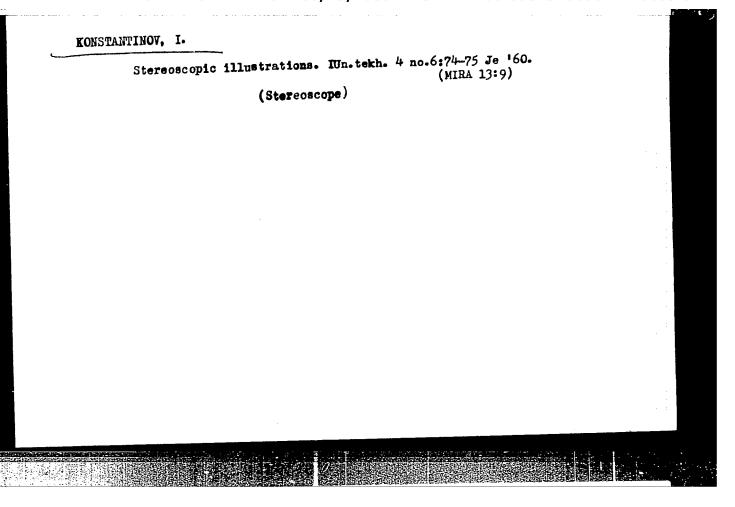
[Rural builders of the Altai contemplate new fronties; work practices of the "Altai Territory Construction Administration"] Sel'skie stroiteli Altaia namechaiut novye rubezhi; opyt upravleniia "Altaits linstroi." Moskva, Trest "Orgsovkhozstroi," 1963. 13 p. (MIRA 17:8)

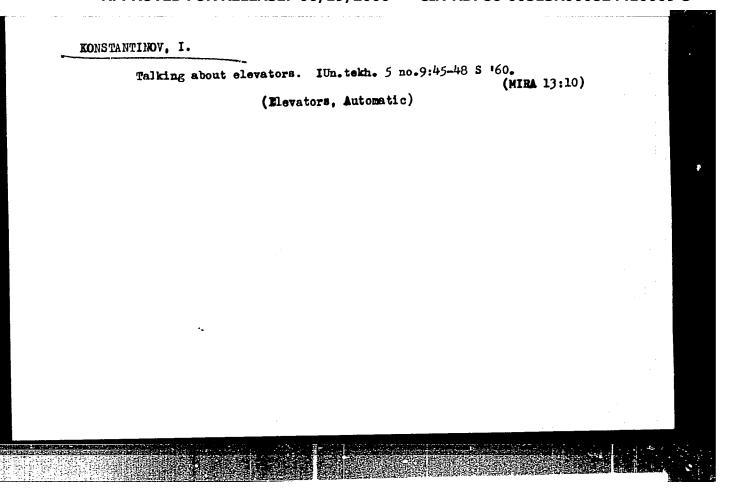
1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Glavnoye upravleniye po delam sel'skogo i kolkhoznogo stroitel'stva. 2. Glavnyy inzhener upravleniya "Altaytselinstroy" (for Vakarchuk). 3. Nachal'nik otdela tresta "Orgsovkhozstroy" (for Konstantinov).











[Examples of the calculation and design of wooden elements; a practical manual for designers] Primery rascheta i proektirovaniia dereviannykh konstruktsii; prakticheskoe posobie dlia proektirovshchikov. Leningrad, Stroiizdat, 1965. 300 p. (MIRA 18:12)

Study of stresses in the Bratsk dam taking into consideration preliminary deformations produced during its construction.

Nauch.-tekh.inform.biul.LPI no.1/2:26-34 '58. (MIRA 12:6)

(Bratsk Hydroelectric Power Station-Dams)

(Strains and stresses)

Static calculations for the Bratsk Dam with the built-in hydroe-lectric power station. Trudy LPI no.208:223-239 '60.

(Bratsk Hydroelectric Power Station--Dams)

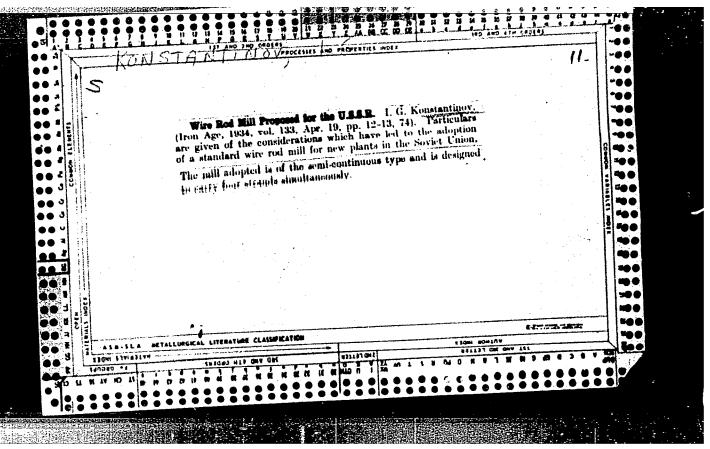
(Bratsk Hydroelectric Power Station--Dams)

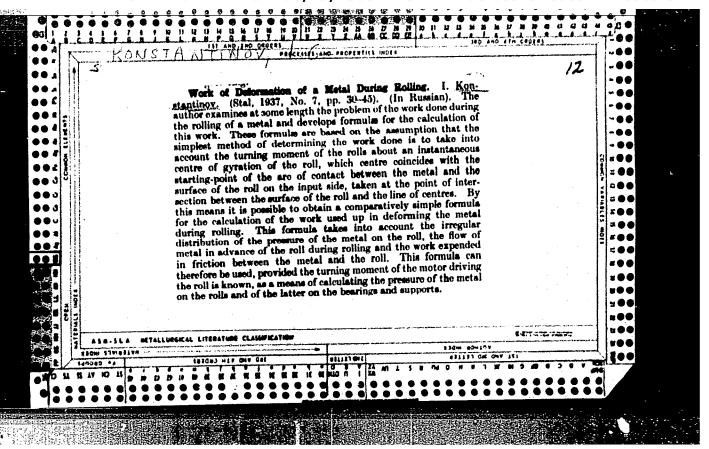
33323. Sad Vysokikh Uroshayev (Kolkhos "Moldova Sochialiste". Slobod_eyskiy Rayon). Vinodeliye i Vonogradarstvo Moldavii, 1949, Mo. 5, C. 35-38

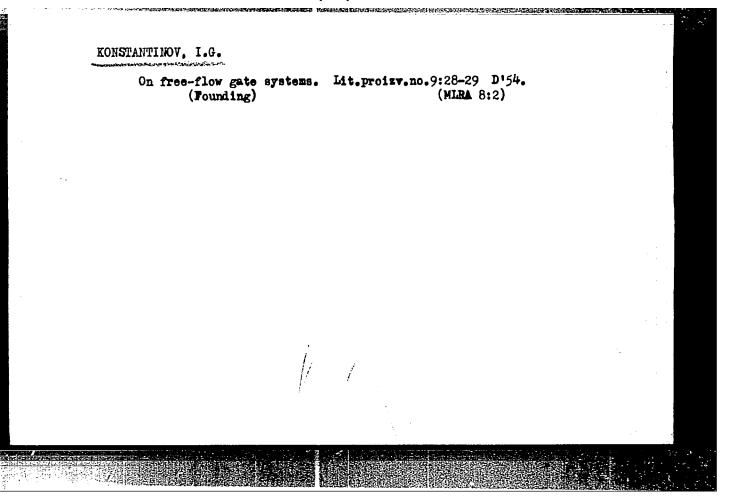
SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

KONSTANTINOV, I.A.; KONSTANTINOV, V.I.; FILIPPOV, N.A., inzh., nauchn. red.; VORONETSKAYA, L.V., red.izd-va; CHERKASSKAYA, F.T., tekhn. red.

[Practical methods and examples of designing railroad structures] Prakticheskie metody i primery rascheta zhelezobetonnykh konstruktsii. Leningrad, Gosstroiizdat, 1963. 340 p. (MIRA 17:2)







PHASE I BOOK EXPLOITATION

SOV/5491

Yedneral, Petr Prokof'yevich, and Ivan Georgiyevich Konstantinov

Teoriya plasticheskoy deformatsii i obrabotka mevallov davleniyem (Theory of Plastic Deformation and Pressworking of Metals) Moscow, Mashgiz, 1960. 341 p. 13,000 copies printed.

Reviewer: A.I. Serovatin, Engineer; Ed.: G.A. Vinogradov, Candidate of Technical Sciences; Ed.: Yu. P. Pilipenko, Engineer; Tech. Ed.: M.S. Gornostaypol'skaya; Chief Ed. (Southern Dept. Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for use as a textbook in machine-building tekhnikums.

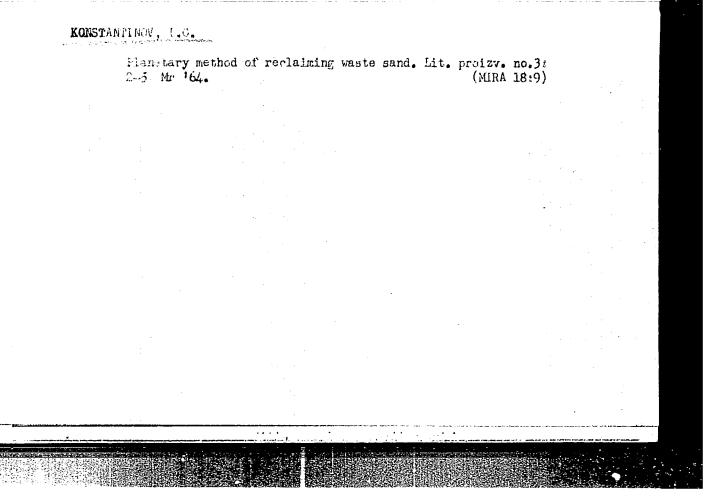
COVERAGE: The book, written to conform to the requirements of the program "The Theory of Plastic Deformation and Pressworking of Metals", discusses the theory of plastic deformation of metals, theoretical fundamentals of rolling and of other methods of metal forming, the rolling process and roll-pass design, extrusion drawing, open-die forging, die forging, and stamping. No personalities are mentioned. There are 58 references: 57 Soviet and 1 English.

Card-1/10-

SHAL'NEV, Viktor Grigor'yevich; KONSTANTINOV, I.G., kand. tokhn. nauk, red.; FILIPENKO, Yu.P., inzh., red.; CORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Progress in forging and sheet-metal working methods]Razvitie metodov obrabotki metallov davleniem. Moskva, Mashgiz, 1962. 618 p. (MIRA 15:10)

(Forging) (Sheet-metal work)



Konstantinov, II

AUTHORS:

Ivantsov, L.M., Konstantinov, I.I., Sukhovalova, V.V., 32-11-24/60

Shurygin, A.I.

TITLE:

Testing of the Spectral System " | NAH" for the Determination of Phosphorus in Steel (Ispytaniya spektral noy ustanovki " | MAH"diya

opredeleniya fosfora v stali)

PERIODICAL

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1329-1332 (USSR)

ABSTRACT:

In the Physical Institute AN USSR the second model of the experimental photoelectric plant for accelerated determination in steel during melting was tested. This work was carried out under operational conditions in the "Amovstal" works together with the institute mentioned in the time between 1954 and 1956. The phosphorus content determined usually amounted to 0.01-0.8%; samples were taken from a melt mass of 350 t; every day up to 300 experiments were carried out. During experimental work about 15.000 spectral determinations of phosphorus were carried out and a total of about 1000 melting processes subjected to spectralchemical supervision. According to the new scheme the spectral plants consist of the following parts: Autocollimation mirror monochromator with constant deflection, double light transmission through a dispersion prism of transparent quarts, controlled revolution which makes it possible, together with the flat mirror, to lead the spectral lines

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824410009-TESTING of the Spectral System " | MAH " for the Determination of Phosphorus in 32-11-24/60

> to the output gap of the monochromator, in which case, because of the accurate adjustment of the output gap, a micrometric shifting of this gap is required. Operation of the device is automatized. The angular dispersion of the plants permits the faultless separation of the line P 2136.2 R. Further data are: practical spectral height 10 mm, inner diameter of the input gap 0.02 mm, inner diameter of the output gap 0.027 mm. The precess of spectral analysis is described. The analysis takes about 4 minutes, doubled: 5 minutes. In order to increase the reliability of operation a double system is recommended. There are 5 figures and 1 table.

ASSOCIATION:

Physical Institute imeni P.N.Lebedev AN USSR and "Asovetal'" Works (Pisicheskiy institut im. P.N.Lebedev Akademii Nauk SSSR i savod "Asovstal""

AVAILBLE

Library of Congress

Card 2/2

MV/1700		Onton opy)	8	5000 5000 5000 5000 5000 5000 5000 500	A.Ye.	studies ifer- by	earths, rolling	20 mg	it ton ind	~17/A	110 378	381.	381	388	392	395			
*	,	opii, 1956. e loth All- e Speetrosc Series: It nted.	Cont setys	Md.); 1 Solences 10al Sciences 201ences 8.N. Mayek	olendes; olendes; eseardher al person	Chrisel - Union Cor erried out	d include des. The s of rere s for cont	wnelysis ve spectri tion of th tables and	of calibrations and lysical	•		the Speatru	of the ithout	, and A.I. hotoelect: eel	Methods of Calculating Galibration Curves for ination of Migh Concentrations of Components in	hysics neftensch			
r.Tom		apektrosko 1ele of the 2: Atomic 568 p. (3	nde 2550.	thematical thematical Mathematical Mathematical Mathematical Mathematical	matical surjuk.	Inches	titutes another sour	spectrum quantitati determina 1sotopes,	remeters is, spectr	(wont.)	is of Spectru	method for the	.H., and S.E. Mandal'abtum. Possibility of the iof a Metal in an Electric Arc Purmace Without i	Suchovalova, and I perimental Photoele phorus in Steel	lbration C	ectral Studios of the Motals and Physics the Stalingrad Branch of the diproneftem			
E SECTOSTARIO		1958.	dendys H	Academics cal and Mark rates and lest and B schnicel Sol	T.V. Services	177 sedenti ented at the The studi	nical insti rict and ot petroscopy licohemica i technolog	theory, bods for spectral	in the party of metallural	oual e Luo	10 10 10 10 10 10 10 10	r. Mew M	ihtam. Po stric Arc	P di g	sting Cali centration	of the Mat Branch of			
PRASS I NOOK		troakopiya Geopy, 195 Dec univ.	i de constitución de constituc	andsberg, of Mysic tor of Mysic and Tech	Marie Marie	3.65	i and technises of South physics and Angelos and Physics and Physi	combustion sphic met d alloys,	variation of trace atativ in	ייי-המזטם	of Minerals	and L.G. Pederova.	. Mandel'. in en Elec	. I.I. Konstantingr. J. Majid Determination of P	of Calcula	Studies of alingred			
E	ţ.	mays spectro mays spectro o L'vorsk	nsoring An	it. 6.8. I beter mit, Beter dy, Candi	Dotor of Dostor	volume son estrography troscopy in	otentific bliograph r many ph tio radia uction, p	and the photograph tent of	study of reination therecebe spectrosh	# TARD #	Study	Minerals	and S.E.	frauerra pid Deter	Methods nation of	Spectral of the St			
	Ond versit		43	Heporer Heporer Pabelia Fortek Eoritek	To Be of the state		bers of sensite his sold sensite his sol	stroscopy minerals lysis of rogen son	Latistical Mrves, detertallury, rection of	, 10 878131	'yev, 0.0.	Prerdlov, E.H.	Man, V.E.	Iventeov, L.R. Enerygin.	Topalov, L.I. The Determin	Chov. B.G. Kaboratory Enstitute	15/22		
34 (7)	1	1.162	###1 tional		23123		16595		200	ý dia	Vorob'yev,	P S	Analysis Sampling		190	Porono Para Para Para Para Para Para Para Par	ž.		
					<u> </u>						· 				ı			***	

SOV/81-59-19-67767

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 19, p 132 (USSR)

AUTHORS:

Ivantsov, L.M., Konstantinov, I.I., Sukhovalova, V.V., Shurygin, A.I.

TITLE:

Industrial Tests of an Experimental Spectral Photoelectric Installation for the Quick Determination of Phosphorus in Steel (A Short Exposition

of the Paper)

PERIODICAL:

Fiz. sb. L'vovsk. un-t, 1958, Nr 4(9), pp 388 - 392

ABSTRACT:

The analyzed samples contained 0.01 - 0.8% P. A two-prism quartz autocollimation mirror monochromator of constant deflection separates the line P 2136.2 A, the intensity of which is automatically compared with the undecomposed light source. The conducted analysis is not inferior to the chemical marking analysis as far as accuracy is concerned. The time needed for analysis is 3.5 - 5 minutes.

Card 1/1

Union Metallugical D.L. Elant "Agordal"

EWT(1)/EPA(s)-2/EWT(z)/EPF(c)/EWP(j)/T/EWA(h) Pz-6/Pc-4/Pr-4/ 48 AUTHOR: Popov, Yu. A.; Davydov, B. E.; Kubasova, N. A.; Krentsel', B. A.; Konstantinov, I. I. TITLE: Synthesis and properties of polymeric Schiff bases The Dyankemolekulyarnyye soyedineniya, v. 7, no. 5, 1964, 336-342 TOTAT TIPE Organic semiconductór, semiconductina polymer, polymeric Schiff base, letter in imperty ABOTPACT. Ten new polymeric Schiff bases have been synthesized and their chemical stricture, merphology, and principal properties have seen studied see Table 1 of Endingers. The synthesis involved the polycondensation of p-pp-nylenediamine or 2.6-diaminopyridine with various dicarboxylic compounds in glacial acetic acid under mild conditions which substantially prevented side reactions. The polymers were yellow to black/materials in some cases infusible up to 400C, showing highwhich semiconductor properties. For the polymeric Schiff bases which are continstogated, the activation energy for conduction was 1.7-1.8 ev. and for which conjugation was disrupted by hetero atoms and - His groups, this - and 3.1-3.6 ev. Pyrolysis of the polymers at 150-5000 under vacuum was Card 1/4

50548-65	en e		
ACCESSION NR: AP501	13057	j	
grigger Grands Standard	ses as to the chemical reactions caused in the searce work advanced to the properties of the propertie	ranger, data region immensional rota- - region - somition in elec-	The Park of the Pa
j tilen ties ∀ g tilen ties k tilenties	as demonstrated, usually consisting a constitution energy. Trig. art. :	nast (figures, 2 tables, (SM)	
iga ta karte ta	tut neftekhimicheskogo sinteza AN S	(SM)	
A TOTAL ATTOM INSTITUTE TO THE STATE OF THE	tut neftekhimicheskogo sinteza AN S	(SM)	
cnemical synthesis,	tut neftekhimicheskogo sinteza AN S	SSSR (Institute of Petro-	
chemical Synthesis,	tut neftekhimicheskogo sinteza AN S AN SSSR)	SSSR (Institute of Petro-	
chemical Synthesis, The series of the serie	tut neftekhimicheskogo sinteza AN S AN SSSR)	SSSR (Institute of Petro-	
chemical Synthesis,	tut neftekhimicheskogo sinteza AN S AN SSSR)	SSSR (Institute of Petro-	

L 50548-65 ACCESSION NR:	AP5013057 Table 1. Some properties of polym	eria Scal	eff bas	ies.			ENC	LOSURE:	010	
£	Table 1. Cold properties of popular	1		2 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- ! !S:			<u> </u>		
	Formula	Color	71014,	option of the state of the stat	lageria vi	Crystal- lizing	ot oha-i	EFR sig- nal, spin/g		
; ¹ o=(cı	1-CH-M-CH-CHO	dark breve	23,60	1 120	-	amorphous	2,0 7,2 10-4	T	•	
11 0=	н-спан-Д-проси-спо	Same	33,60	1 440	500	62,70	1,1,27·10=4	la ir		4
III 0=(c-	C-MC-M-C-C-O	• •	£7,00	6. 600	1010	.,	3.0 2.9 - 10-4	1,0110		
iv		St.e.l.	85,86	£ 920	1530		1.5 1.2-10-4	f/1=10m		
V 0[C-	—C→R—(—N]—He He CeHe	yellow	23,52	1 (953	1100	prystalline s.p. 111-111°;	1 1	15 · 1012		
ے اُسو ۱ اور پا	-cue O lucia	Sene	63.65	1 523	20	brystallin	512.0: E 15-9	13.100		
-	CHCHHCHCHCHCHCHG	dark brown	69,20	1 422	-	esorphous	1,7 63-19-4	[4 · 10a	``	
70				, ,				•		
		ō								

ACCESSION N	R: AP5013057 Table 1. Some properties of po	elyperie Schil	f base	(Con	11.)	E.	iclosure:	02 <i>0</i>		
	Formula	Caler	Tield, 8	and group		Crystal- lising	av oum	-1 cal		
TII ;	OF CH - CHARCH-CHARA A BECH-CHARCH-CHA	bladic	23.00	1050	1055	18,000	7 1.5 1	0-m; 1.10m		
£X.	o=[cH◯cH−N◯N]=H'	rellow	45,60	630	_ \	erystalli:	ad 2.4 (7.6%)	0-m (4 - 10m		
τ	0 mg/c H — CH 202 M 20 CH — CH 202	# 4756	25.85	920	-	#301.byca	1,1 30	0-18 F. 10-8		
ť '	O-(COO COO N) CH	C=0 violar	9.5	1200		prystalli 2 F 180 1850	164	: 01 Lg - 1000		
τ:· (0-(C-CH-CH-CH-C-H-)H	£747	(2,5)	693			p 8.6 8.8 · I	24 100		
٠.	CHI CHI	910013	9,5	1159	1750 1	emot sens		Ç~i, riyapi 		

AMERIK, Yu.B.; KRENTSEL*, B.A.; KONSTANTINOV, I.I.

Polymerization of vinyl oleate in the liquid crystal state. Dokl. AN SSSR 165 no.5:1097-1100 D .65.

(MIRA 19:1)

1. Institut neftekhimicheskogo sinteza im. A.V.Topchiyeva AN SSSR. Submitted May 3, 1965.

Procurement and processing of silk cocoons. Tekst.prom. 15 no.2:13-14 F '55. (Silk manufacture)

KONSTANTINOV, I.O.

Diurnal intensity variations of cosmic rays in Tikhaya Bay. Probl.Arkt.i Antarkt. no.1:41-48 *59. (MIRA 13:7)

(Cosmic rays)

This publication is intended for geographers, ocenaographers, and readers interested in the study of the Arctic and Antarctic regions. This collection of 17 articles published by the Arctic and Antarctic Sci. Res. Inst. deals with the following conditions int the Arctic Seas, Atmospheric carculation and turbulence, the problem of albedo on drifting ice, the intensity of cosmic rays, and the use of aerial photography in ice reconnaissance. Table s of instrumental corrections for reading deep-sea reversing thermometers are included.

S/089/62/013/001/004/012 B102/B104

AUTHORS:

Blinov, V. A., Konstantanov, I. O., Litvin, V. F.,

Nemilov, Yu. A.

TITLE:

A polygonal magnetic multispectrograph-analyzer

PERIODICAL:

Atomnaya energiya, v. 13, no. 1, 1962, 59-60

TEXT: Details are given of a particle distribution analyzer similar to those already described by S. Hindy and B. Hindleton (Proc. Intern. Conf. Nucl. Structure, Kingston, Canada, 1960). It is designed as a multispectrograph with a Van-de-Graaff accelerator, the gap field, produced by permanent magnets can be varied within a range of 7.10° oe. The gap width is 1 cm. Nine sections with disphragas gorrespend to mine angle intervals between 5 and 95°, each disphraga serving to separate a solid angle of \$3.10^4 steradian into its "own" spectrograph. The charged particles coming from the target, which is placed in the uniform part of the magnetic field, pass through the corresponding disphraga and are focused onto the nuclear emulsion plates arranged slow the fogal curve. By contrast with the analyzers described by Hinds-Hiddeton it is possible with this

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410009-

S/089/62/013/001/004/012 B102/B104

A polygonal magnetic ...

analyzer to raise the upper limit of particle energy by several times on account of the aperture ratio, without having to change the magnetic field strength in the gap. As an example, the energy spectrum of 2.55-Mev protons elastically scattered through 90° by a gold target (ninth section of the analyzer) is given. The energy resolution was 300. There are 2 figures.

SUBMITTED: January 26, 1962

Card 2/2

BLINOV, V.A.; KONSTANTINOV, I.O.; LITVIN, V.F.; NEMILOV, Yu.A.

Multiangular magnetic analyzer-multispectrograph. Atom. energ.

13 no.1:59-60 J1 '62.

(Nuclear instruments)

24.6500

S/056/63/044/001/025/067 B104/B144

AUTHORS:

Babenko, N. P., Bibichev, B./A., Konstantinov, I. O.,

Nemilov. Yu. A.

TITLE:

Neutron polarization in the C12 (d,n) N13 reaction

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,

no. 1, 1963, 135-136

TEXT: The polarization of neutrons from the reaction $C^{12}(d,n)N^{13}$ corresponding to the formation of an N^{13} nucleus in the ground state was measured for a deuteron energy of 6.5 Mev. The neutrons were selected by a conical paraffin collimator at an angle of 40° with the deuteron beam direction. A helium high-pressure scintillation counter was used as analyzer. The chamber of this counter was 4 cm in diameter and 7 cm high, the pressure (He + 7% Xe) was 70 atm. The neutrons scattered by helium under an angle of 123° were recorded by stilbene crystals. The thickness of the Aquadag target corresponded to a loss in deuteron energy of 600 kev, the current to the target was 5 µa. Using a

Card 1/2

S/056/63/044/uo1/025/067

Neutron polarization in the ... B104/8144

polarization value of PHe4 = 0.94 for 5.7 Mev neutrons scattered on helium through 123° (B.L.Walter et al., Mucl.Phys., 50, 292, 1962), a value of P(40°) = (-25.013.0)% was obtained for neutron polarization from the C12(d,n)N13 reaction (Ed = (6.210.3) Mev). This value agrees with that obtained in the polarization theory for stripping reactions for this energy range. There are 2 figures.

SUBMITTED: August 10, 1962

BABENKO, N.P.; KONSTANTINOV, I.O.; NEMILOV, Yu.A. Angular distribution of the polarization of neutrons from the $C^{12}(d, n)N^{13}$ reaction. Zhur. eksp. i teor. fiz. 45 no.5:1389-1392 N '63. (MIRA 17:1) 1. Radiyevyy institut AN SSSR.

CIA-RDP86-00513R000824410009-3" APPROVED FOR RELEASE: 06/19/2000

ACCESSION NR: AP4033101 5/0120/64/000/002/0029/0035

AUTHOR: Babenko, N. P.; Konstantinov, I. O.

TITLE: Neutron polarimeter

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 29-35

TOPIC TAGS: polarimeter, neutron polarimeter, fast neutron polarimeter,

cyclotron.

ABSTRACT: A new polarimeter is used in conjunction with a cyclotron which produces a 6.6-Mev deuteron beam with an average current of 3 microamp. The cyclotron deuterons are focused by quadrupole lenses on a target, cause a reaction there, and proceed further into a Faraday's cylinder. The neutrons are taken off at an angle θ , by a shielded conical collimator (see Enclosure 1) with a 30 angular aperture. A high-pressure gas scintillation counter (design drawing and principal data supplied) is placed at 65 cm from the target; the shield

ACCESSION NR: AP4033101 consists of 35 cm paraffin and 10 cm lead. The gas counter serves simultaneously as an analyzer and as a monitor of fast neutrons. Although the polarimeter can be adjusted for a resolution time of 1 nsec, the size of the gas analyzer and neutron detectors, as well as stability interests, makes a resolution time of 5 nsec expedient. Calibrating and aligning procedures of the polarimeter are also described. "The authors consider it their pleasant duty to thank Yu. A. Nemilov for his fruitful help in carrying out this project." Orig. art. has: 8 figures and 1 formula. ASSOCIATION: none DATE ACQ: 11May64 ENCL: 01 SUBMITTED: 29May63 NO REF SOV: 004 SUB CODE: NS Card 2/32

ACCESSION NR: AP4033141

5/0120/64/000/002/0164/0166

AUTHOR: Babenko, N. P.; Konstantinov, I. O.; Nemilov, Yu. A.

TITLE: High-pressure gas scintillation counter

SOURCE: Pribory* i tekhnika eksperimenta no. 2, 1964, 164-166

TOPIC TAGS: counter, scintillation counter, gas scintillation counter, high pressure gas scintillation counter, fast neutron polarization, neutron polarimeter

ABSTRACT: A new-design high-pressure gas scintillation counter intended to measure fast-neutron polarization is described. Design sketches of the counter and of the exhaust and filling valves are presented. A stainless-steel chamber with an internal volume of 70 cm³ is filled at 100 atm with a mixture of 5-7% Xe and 93-95% He4. All gaskets are made of teflon. An alpha-source (Po) introduced into the counter serves to measure its time and amplitude characteristice; the halfwidth of the Po line is under 6%. The resolution time of the counter

or than that of stilbene. The counter has been used both as an id as a monitor in a neutron polarimeter. Orig. art. has:
ATTE OF THE PROPERTY OF THE PARTY OF THE PAR
ON: none
D: 15May63 ATD PRESS: 3066 ENGL: 00
OP, NP NO REF SOV: 001 OTHER: 004
OF AP ROKEF SOVI OUI OTHER! 604

POSTURRO

ACCESSION NR: AP4043656 S/0056/64/047/002/0767/0768

AUTHORS: Babenko, N. P.; Konstantinov, I. O.; Moskalev, A. P.; Nemilov, Yu. A.

TITLE: Neutron polarization in the reaction D(d, n)He

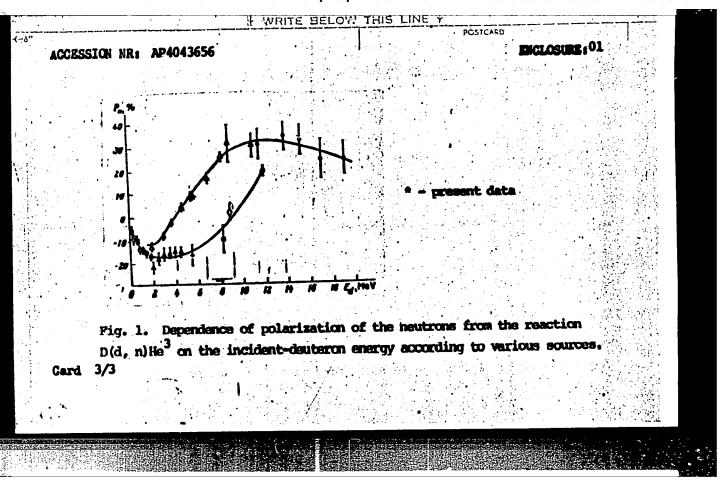
SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 767-768

TOPIC TAGS: neutron polarization, deuteron scattering, deuteron cross section, deuterium, helium

ABSTRACT: The authors used a previously published (ZhETF v. 45, 1389, 1963) and somewhat improved procedure to measure the polarization of neutrons from the reaction D(d, n)He³ at incident deuteron energies 4.7 and 5.6 MeV, for a reaction angle of 45° in the center-of-mass system. The measurements were made with the extracted beam of the Radium Institute cyclotron at a deuteron energy 6.6 ± 0.1 MeV. The target was gaseous deuterium at a pressure of 4.5 atm in a volume

Card 1/3.

ACCESSION NR: AP4043656 The neutrons from the reaction bounded by two tantalum foils. were analyzed with a gas-filled scintillation counter at 135°. shown in Fig. 1 of the enclosure the dependence of the neutron polarization on the incident-deuteron energy, as obtained by various investigators, tends to cluster about two experimental curves. The present results follow the upper curve of the figure. "The authors thank M. B. Miller for help with the measurements." Orig. art. has: 1 figure. ASSOCIATION: None ENCL: SUBMITTED: 14Feb64 SUB CODE:



BABENKO, N.P.; BIBICHEV, B.A.; KONSTANTINOV, I.O.; MOSKALEV, A.P.; NEMILOV, Yu.A.

Neutron polarization in (d, n) typo stripping reactions with 1p = 1.
IAd. fiz. 1 no.3s452-455 Mr '65. (MIRA' 18:5)

KONSTANTINOV, I. P.

""Work of the Factory for Milling Machines, Dmitrovsk."

Programmed Control of Metal Cutting Machines. report presented at All-Union Conference, Moscow, 13-16 Nov 1957

<u>Vestnik Ak. Mauk. SSSR</u>, 1958, No. 2, pp. 113-115, (author Kobrinskiy, A. Ye.)

Card 1/1

USSR/Cultivated Plants. Grains.

II

Abs Jour: Ref Zhur-Biol., No 15, 1958, 68DD2

Author

: KonstantInov, I. 3.

Inst

: AS USSK Moldavian Branch.

Title

: The Effect of Mineral Fertilizers on Winter Barley Yields on Eroded Soils.

Orig Pub: Izv. Mold. fil. AN SSSR, 1957, No 9 (42),

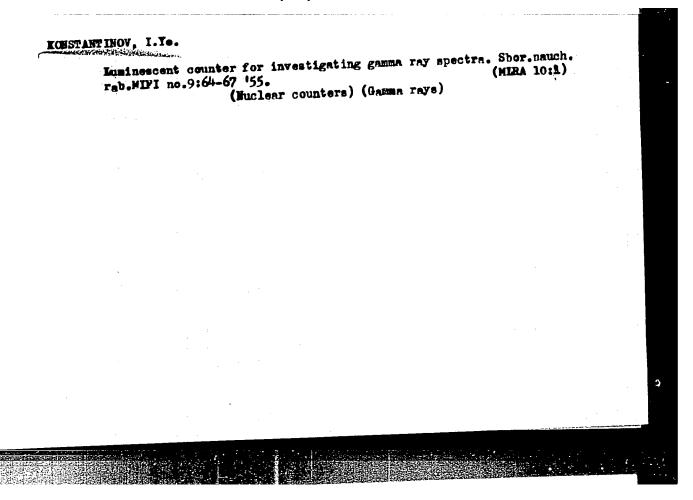
119-126

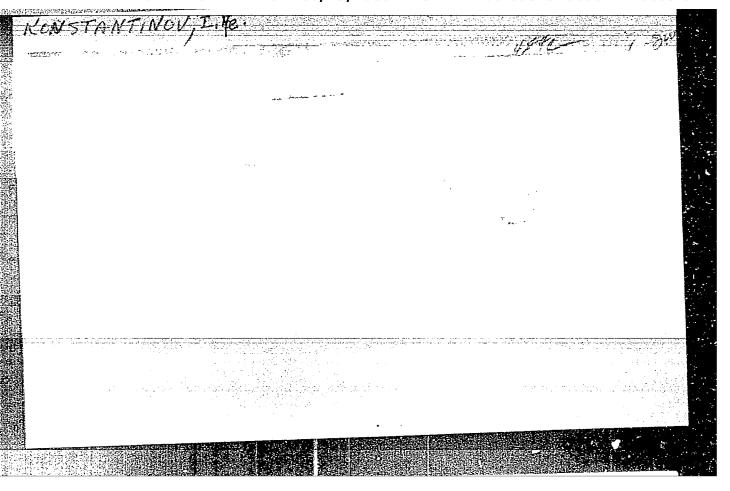
Abstract : An investigation was made of the effectiveness of superphosphate and full mineral fertilization (30 and 60 kg/hectare) on winter barley ytelds on oroded and uncroded soils of Moldavia. The plants on eroded soils responded better to fertilization. In the N30P30K30 variant, each additional kilogram

Card

: 1/2

18





KONSTANTINOV, I. . . . Cand Tech Sci -- (diss) "Application of Scintilities Spectrometers for the Investigation of Continuous Spectra of Gamma-Radiation." Mos. 1957. 16 pp. (Min Regarded Higher Ed USSR, Mos Eng-Phys Inst), 110 copies. Bibliogr at end of text, (KL, 7-58, 110)

- 22 -

SOV/112-59-2-3288

21(3)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2,

pp 151-152 (USSR)

AUTHOR: Konstantinov, I. Ye.

TITLE: Experimental Data on the Luminescent Method of Gamma-Radiation Dosimetry (Eksperimental'nyye dannyye po lyuminestsentnomy metodu dozimetrii gamma-izlucheniya)

PERIODICAL: V sb.: Issled. v obl. dozimetrii ioniziruyushchikh izlucheniy. M., AS USSR, 1957, pp 98-101

ABSTRACT: Checking the "hardness course" in luminescent crystals of NaI(TI) naphthalene (activated by anthracene) and stilbene with respect to gammaradiation dose rate is described. The photomultipler current was compared with the saturation current of a thimble ionization chamber that had no "hardness course" within the energy range in question. The following gammaradiation sources were used:

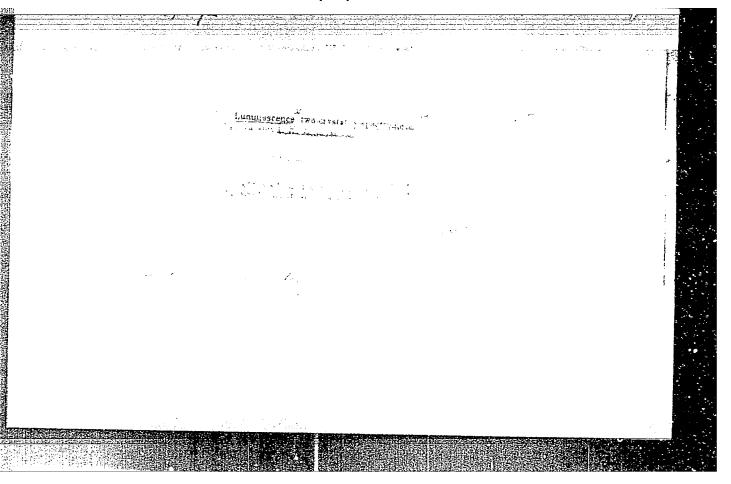
Card 1/2

CIA-RDP86-00513R090824410009-**APPROVED FOR RELEASE: 06/19/2000**

Experimental Data on the Luminescent Method of Gamma-Radiation Dosimetry

 Sn^{113} (350 Kev), Cs^{137} (661 Kev), Co^{60} (1.25 Mev). All investigated crystals had the "hardness course." The ratio of the photomultipler current to the chamber current grows with higher gamma-radiation energy for stilbene and naphthalene and droops for NaI(TI). The minimum gamma-radiation dose rate that can be measured by the luminescent method was determined for a NaI(TI) crystal. Feasibility of constructing a luminescent gamma-radiation dosimeter for measuring a dose rate of 10-9 roentgen/sec is noted.

N.G.Z.



Use of scintillation spectrometers for investigating continuous

Y-ray spectra. Wek.vop.insh.fiz. no.3:32-64 '58.

(MIRA 12:5)

(Gamma rays-Spectra) (Scintillation spectrometry)

SOV/70-4-1-9/26 Kheyker D.M., Konstantinov, I.Ye. and Alekseyev, Y.A.

AUTHORS: The Application of the Scintillation Counter in X-ray TITLE:

Struction Analysis (Primeneniye stsintillyatsionnogo

schetchika v rentgenostrukturnom analize)

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 1, pp 54-61 (USSR)

A scintillation counter and recorder with discriminating ABSTRACT:

circuits which is suitable for use with the URS-50I diffractometer is described. The block diagram is given

in Figure 1, where:

1 - crystal, NaI(T1), size 20x5x1 mm; 2 - photomultiplier FEU-29;

3 - cathod follower;

4 - H.T. stabilised rectifier, 1500 V supply, ripple content < 0.2%;

5 - linear amplifier, rise-time 0.5 μsec, maximum amplification 4000, resolving time 1-2 μsec;

6, 7 - stabilised amplifier supplies;

8 - differential discriminator, resolving time 2.5-3 μsec, position (0 to 100 V) and width of channel (0-10 V) are continuously variable;

Card1/4

SOV/70-4-1-9/26 The Application of the Scintillation Counter in X-ray Structure Analysis

9 - countering circuit;

10 - timing relay;

11 - countering circuit, PS-64 type counting 1,4,16, 256 and 1024 with resolving time 2.5-3 µsec;

12 - electromechanical counter; 13 - integrating circuit with 2 ranges 0 to 100 and 0-200 pulses/sec;

14 - recorder;

15 - mains.

The installation has the following characteristics. Linearity: the resolving time of the counter is about 0.25 μsec and the limiting factor is the resolving time of the recording circuits, which is about 2.5-3.0 μ sec, so that the departure from linearity does not exceed 1% up to 3500 counts/sec. Efficiency: the quantum efficiency of the counter is determined by the thickness of the window, usually the reflected beam passes through black paper and 14 \mu Al foil. The absorptions for Mo, Cu and Fe radiation are 2, 20 and 40%, respectively.

Card2/4

. जॉक्ट

The Application of the Scintillation Counter in X-ray Structural Analysis

Spectral characterisstics: curves are given showing that all usual wavelengths can be employed and that there is good discrimination against noise but that a β -filter should always be used. The counter background is \sim 0.1 counts/sec for Cu radiation. The r.m.s. error in measuring a given line over periods of a day is about 1.5%. In normal use, the efficiency of a Geiger counter may be 30-50% and that of a scintillation counter 80-90%. If there is heavy fluorescence or Compton scattering, the proportional counter will have advantages and a scintillation counter may need a monochromator after the specimen. There are 6 figures and 10 references, 6 of which are Soviet and 4 English.

Card3/4

CIA-RDP86-00513R000824410009-3 "APPROVED FOR RELEASE: 06/19/2000

SOV/70-4-1-9/26

The Application of the Scintillation Counter in X-ray Structural Analysis-

ASSOCIATIONS:

Vniiasbesttsement MPSM SSSR

Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering and Physics Institute)

SUBMITTED:

November 4, 1957

Card 4/4

KHEYKER, D.M.; KONSTANTINOV, I.Ye.; ALEKSEYEV, V.A.

Use of detectors of X-ray detectors in diffractometry. Scintillation device for diffractometry. Trudy NIIAsbesttsementa no.10:3-24 '59. (MIRA 16:8)

(X-ray diffraction examination)

21.5200

S/120/60/000/005/033/051 E032/E314

AUTHORS:

Konstantinov, I.Ye. and Strakhova, V.A.

TITLE:

Compton Scintillation Gamma-spectrometer with

Increased Efficiency

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 5, pp. 125 - 126

TEXT: The Compton scintillation γ-spectrometer which was first described by Hofstadter and McIntyre (Ref. 1) is convenient in the study of complex γ-ray spectra. The important advantage of this spectrometer is that only a single instrument maximum corresponds to given monochromatic rays (in distinction to a single-crystal γ-spectrometer in which photopeaks are accompanied by considerable Compton distributions, and the interpretation of the results is more difficult). An important disadvantage of the Compton γ-spectrometer is its low relative aperture. For example, in a spectrometer employing collimation and NaI(T1) crystals of small dimensions (diameter 30 mm, length 13 mm), the relative aperture is ~ 10-7 (Ref. 2). Card 1/5

X

S/120/60/000/005/033/051 E032/E314

Compton Scintillation Gamma-spectrometer with Increased Efficiency

Various methods of increasing the relative aperture of the Compton spectrometer have been described in the literature. In the spectrometer without collimation, the relative aperture may be increased by two or three orders of magnitude (Ref. 3). In Ref. 4 the relative aperture was increased by more than one order of magnitude by adding pulse amplitudes from the analysing and control crystals. In the present work the relative aperture of the compton spectrometer was increased by using a control crystal in the form of a ring. The block diagram of the instrument is shown in Fig. 1. γ -rays from the source S were collimated by a lead collimator and passed through the hole in the control NaI(T1) crystal C2 . They then entered the analysing crystal C_1 (NaI(T1)) and were Compton-scattered into the control crystal which was in contact with the photomultipliers PM-II, PM-III and PM-IV (the latter is not shown in the figure). The analysing crystal was also in contact Card 2/5

S/120/60/000/005/033/051 E032/E314

Compton Scintillation Gamma-spectrometer with Increased Efficiency

with the photomultiplier C₁ (PM-I). The dimensions of the control crystal were: diameter 80 mm, length 30 mm, hole diameter 18 mm, collimator hole diameter 6 mm. The diameter and length of the analysing crystal were 29 and 13 mm, respectively. Pulses from the photomultipliers of the control crystal were fed into the same amplifier. Other parts of the spectrometer were similar to those described in Ref. 2. The efficiency of the spectrometer as a function of energy was measured, using

Hg 203 / Cs 137 / Zn 65 / g and Co 7 γ-ray sources. The efficiency was defined as the ratio of the pulses actually recorded and the number of γ-rays incident on the analysing crystal. Fig. 2 shows the efficiency as a function of energy. It is clear from this figure that the efficiency (and hence the relative aperture also) of the ring-crystal spectrometer is higher by a factor of ten as compared with the spectrometer described in Ref. 2. The experimental values for the Card 3/5

s/120/60/000/005/033/051 E032/E314

Compton Scintillation Gamma-spectrometer with Increased Efficiency

efficiency are in good agreement with theoretical data. study of the instrumental lines for monochromatic γ-rays shows that the contribution due to low-energy continuous distributions accompanying the main Compton peaks is not greater than in the spectrometer described in Ref. 2. The main advantage of the spectrometer described above is the fact that it has a higher relative aperture, without any attendant complications in the circuitry and experimental procedure. The procedure described in Ref. 3, on the other hand, is complicated by the fact that the spectrum has to be measured twice, and it is necessary to use special filters in order to eliminate effects due to cascade \u03c4-rays. The above spectometer may be used in experiments requiring the collimation of γ -rays. Acknowledgment is made to A.B. Gil'varg for supplying the ring crystal in a special packing Card 4/5

S/120/60/000/005/033/051 E032/E314

Compton Scintillation Gamma-spectrometer with Increased Efficiency

There are 2 figures and 4 references: 3 Soviet and

1 English.

SUBMITTED: August 26, 1959



Card 5/5

\$/032/60/026/04/38/046 B010/B006

AUTHORS: Alekseyev, V.A., Konstantinov, I. Ye., Kheyker, D.M.

TITLE: Scintillator for the Diffractometer of the Type URS-50I

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 501-502

TEXT: The present paper was read at the sixth conference on the application of X-rays for testing materials, which was held in Leningrad, from June 23-29, 1958. A scintillator for the diffractometer of the type URS-501 was designed. The block diagram of the apparatus is shown (Fig. 1). The scintillation counter contains a NaJ (T1)-scintillation crystal (the crystals were prepared by A.B. Gil'varg, a collaborator of the Institut kristallografii AN SSSR (Institute of Crystallography of the AS USSR)) and an FEU-29 photomultiplier. The measuring arrangement comprises a voltage stabilizer of the type SNE-220-0.75,4a PS-10000 translator, and a differential discriminator with the integrator, as well as an EPP-09 potentiometer, which is arranged separately. An amplifier stage of the 76ZhJP tube is used with the discriminator (Fig. 2, scheme of discriminator). The integrator scheme is similar to that of the measuring apparatus of the type "Bambuk". The scintillator described renders possible the counting of 50, 500,

Card 1/2

Scintillator for the Diffractometer of the Type URS-50I

S/032/60/026/04/38/046 B010/B006

1000, 5000, 10000 and 50000 impulses per second. Measurements may also be carried out using an electromagnetic counter and a stop watch, or a timing relay with a recording instrument. There are 2 figures and 8 references, 4 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy
slyudyanoy promyshlennosti (Scientific Research Institute of
Asbestos, Mica, and Asbestos-cement Finished Goods and Planning the
Construction of Enterprises of the Mica Industry). Moskovskiy
inzhenerno-fizicheskiy institut (Moscow Institute of Engineering
and Physics)

Card 2/2

և5և55 s/892/62/000/001/018/022 B102/B186

AUTHORS:

Fedorov, G. A., Konstantinov, I. Ye.

TITLE:

Determination of the efficiency of a scintillation games

spectrometer by the modeling method

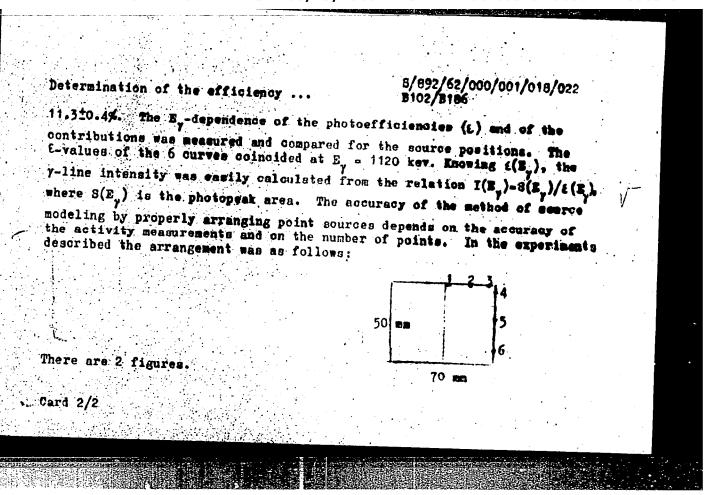
SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Voprosy dosimetriž

i sashchity of islucheniy, no. 1, 1962, 121-124

TEXT: The modeling of radioactive sources of arbitrary shape by game point sources of known activity is discussed. Measurements were carried out with Hg 203, Cs 137, Zn 65, Co 60 and Na 24 sources of less than 1 mm diameter arranged in 2-3 mm wide and 5 mm high cylindrical Dewar vessels, and a 70 · 50 mm large NaI(Tl) counter crystal. The source activities were between 0.3 and 2.5 μcuries, and were determined from the counting rate of a scintillation γ-counter with a NaI(Tl) crystal 39.2 by 37.6 mm. The line shape was determined for the point sources placed at six different positions, not more than 10 mm away from the crystal surface. Line shape and resolution were found to be almost independent of the position; e.g. for Cs 27 the resolution was

Card 1/2



5/796/62/000/003/002/019

AUTHORS: Stolyarova, Ye. L., Chukhin, S.G., Konstantinov, I. Ye., Mis'kevich, A.I.

TITLE: Investigation of the angular-spectrum distributions of scattered y-

radiation in protective barriers in the case of a plane single-directional

source.

SOURCE: Moscow. Zhenerno-fizicheskiy institut. Pribory i metody analiza

izlucheni/... no. 3. 1962, 15-36.

TEXT: A theoretic. Ad experimental approach is undertaken to obtain systematic knowledge on the process of transition of γ -rays through protective barriers of finite dimensions and not, as heretofore, through a homogeneous and infinite medium from an isotropic punctuate source or from a plane directional source. The process is characterized in terms of the γ -quanta flux density $N(\overline{r},\Omega,E)$, customarily termed the angular energy distribution of the radiation. The function N permits a determination of a number of important characteristics of a multiply scattered radiation, such as: (1) The energy-intensity spectrum; (2) the angular intensity distribution; (3) the energy-accumulation (storage) factor. A review is made of existing experimental investigations reported by 5 Western and 2 Soviet group of authors. The present investigation comprises measurements with scintillation-type γ -spectrometers of the angular energy distributions at points lying in the far (downstream)

Card 1/4

Investigation of the angular-spectrum distributions... 5/796/62/000/003/002/019

boundary plane of a barrier. Co60 sources were used with Al, Fe, and Pb media. Angular intensity distributions of the scattered y-radiation were obtained, and a comparison was made between the differential y-ray energy spectra obtained with an Al barrier of a thickness $\mu_0 d = 1$ and 3.8 and those obtained theoretically for an infinite geometry. The desired function N depends on the barrier thickness, the angle θ between the direction of the primary γ quanta and the direction of the scattered y quanta near the given point, and on the energy E of the scattered y quanta. The experimental equipment used, consisting of a fixed NaI(TI) crystal, 70x48 mm, and a rotatable source-and-barrier rig, is described. The spectrometer effectiveness, its resolution, and details of the photoamplifier and the 100-channel pulse-amplitude analyzer ("Raduga") are reported. The barrier dimensions were 75x75 cm. The plane, single-directional Co60 source was simulated by a punctuate source located at a fairly great distance (to obtain nearly uniform radiation intensity on the barrier). Experimental results and data-processing methods. The amplitude distribution of the impulses was measured for a finite number of scattering angles. Corrections were introduced to obtain a true y-ray spectrum: 1. The "dead" time of the spectrometer, which was a specific defect of the 100-channel amplifier employed, in which the "dead" time was a function of the amplitude of the input impulse. 2. The background, obtained by subtracting the impulse spectrum found by closing the detector collimator with a lead rod from the impulse spectrum

Card 2/4

Investigation of the angular-spectrum distributions... \$/796/62/000/003/002/019

measured with the collimator open. 3. The true y-quantum spectrum as obtained from the measured impulse-amplitude distribution. The solution of the integral equation involved in this problem has been accomplished variously (Liden, K., et al., Arkiv för Fys., no. 7, 1954, 5; Whyte, G.N., NBS Report no. 1003, 1952) and is here performed by transforming the integral equation into a system of interrelated linear equations. The method of this analysis of the spectrum, including the determination of the matrix elements required therefor and the construction of the matrix, is explained in detail. 4. The spectrometer-effectiveness correction, including the effectiveness of the spectrometer at the photopeak, i.e., the ratio of the number of impulses at the photopeak by the number of y-quanta that impinge on the crystal, and the correction for the effective solid angle of the collimator. 5. The energyresolution correction. The results of the measurements are set forth. It was found that all angular energy distributions of the scattered y-radiation, regardless of the atomic number Z and the angle θ , have a maximum that corresponds to the energy of single scatter over a minimal angle. The shape of the angular energy distribution indicates that the energy-dissipating role of multiple scatter increases with increasing angle θ and decreasing atomic number Z of the medium. Substantial differences between experimental and theoretical spectra occurred for low energies only; this is attributed to the lack of backscatter with real barrier geometry. In the low-energy range an atomic-number-dependent multiple-scatter

Card 3/4

5/048/62/026/003/008/015 B152/B102

AUTHORS:

Kheyker, D. M., Zevin, L. S., Konstantinov. I. Ye., and

Alekseyev, V. A.

TITLE:

Application of a proportional counter to x-ray diffraction

studies

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 3, 1962, 388-394

TEXT: By applying a proportional counter the authors were able to reduce the relative background level in roentgenograms. The counter had beryllium side windows and was filled with a mixture of xenon (300 mm Hg) and isopentane (30 mm Hg). The amplitude resolution (w = $2.36 \sqrt{1.1/N}$, N is the number of initial ion pairs produced by one quantum) for CuK_α was 13 % and the efficiency for the same line was 72 %. A block diagram of the experimental device is shown in Fig. 5. The amplification factor

should be of the order of 10^5 and the noise amplitude should not exceed 1/10 of the signal amplitude. In order to reduce the background level,

Card 1/3

CIA-RDP86-00513R000824410009-3" APPROVED FOR RELEASE: 06/19/2000

Application of a proportional...

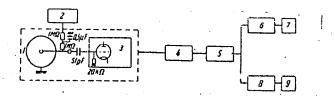
S/048/62/026/003/008/013 B152/B102

ASSOCIATION: NIIasbesttsement, Moskovskiy inzhenerno-fizicheskiy institut (Scientific Research Institute of Asbestos and Cement,

Moscow Engineering Physics Institute)

Fig. 5. Block diagram of the experimental device for the proportional

counter: (1) proportional counter, (2) high-voltage rectifier "Orekh", (3) preamplifier of MG-2 (USh-2), (4) base amplifier MG-10 (USh-10), (5) differential discriminator AAAO-1 (AADO-1), (6) intensimeter MCC (ISS). (7) automatic recorder MG-09 (EPP-09), (8) scaler, (9) electromechanical



Card 3/3

Fig. 5

ACCESSION NR: AT4021267

S/2892/63/000/002/0162/0170

AUTHOR: Kukushkin, Yu. V., Konstantinov, I. Ye.

TITLE: Investigation of β radiation spectra after passing through matter

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniy, no. 2, 1963, 162-170

TOPIC TAGS: β radiation, β spectrum, β particles, scintillation spectrometer, cesium, aluminum, celluloid, Curie-Fermi graph

ABSTRACT: Investigation of β spectra of cesium 137 after passing through an absorber with a low atomic number is conducted. The problem arises in the identification of the content of these elements in thick β preparations by means of the spectrometric method. The β spectra are measured with a scintillation spectrometer, the schematic of which is given. Cesium 137 was the source and the radiation was passed through aluminum foil or celluloid. The obtained β spectra are presented in Curie-Fermi graphs. The authors did not succeed in plotting graphs in the case of great thicknesses of the absorber. The results agree well with the results arrived by Aglintsev, K. K., Kasatkin, V. P. (Atomnaya energiya, 7, Vy*p. 2, 138 (1959)). Orig. art. has: 8 figures.

Card 1/2

ACCESSION NR: AT4021268

S/2892/63/000/002/0171/0178

AUTHOR: Fedorov, G. A., Konstatinov, I. Ye.

TITLE: On the method of determining the cesium 137 content in soils

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniy*, no. 2, 1963, 171-178

TOPIC TAGS: cesium 137, γ radiation, radioactive fallout, scintillation spectrometer, photoelectric efficiency

ABSTRACT: In this paper, the authors point out three basic methods for the selection of samples which make it possible to establish the fallout speed and accumulation, of radioactive residue: collection of rain water, dust, or snow, by means of open containers, the use of adhesive boards and the selection of soil samples. Soil samples yield the most valuable information on the possible danger of radioactive radiation for man. Certain methodical problems related to the application of a scintillation γ spectrometer for determining the cesium 137 content in soils are examined. In their research involving this method, the authors measured the γ spectra of the samples. For this purpose the crystal NaJ(Te) with d=70 mm and h=55 mm, and an impulse amplitude analyzer AI-100 were used. The sensitivity of the method is adequate for registering the activity of cesium 137 with high

Card 1/2

GUSEV, N. S.; IVANOVA, Z. M.; KONSTANTINOV, I. Ye.

"The Gamma Spectrometer with Anti-Coincidence Scintillation Shielding."

report submitted for All-Union Conf on Nuclear Spectroscopy, Toilisi, 14-22 Feb 64.

MIFI (Moscow Engineering Physics Inst)

"Scintillation Spectrometer for Fast Neutrons."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

MIFI (Moscow Engineering Physics Inst)

L 3143-66 EWT(m) AM5020747 · BOOK EXPLOITATION UR/ 621.039.58+577.391(076.1) Ivanov, Viktor Ivanovich; Konstantinov, Igor' YEvgen'yevich; Nash-

Collection of problems on dosimetry and protection from ionized radiation (Sbornik zadach po dozimetrii i zashchite ot ioniziruyushchikh izlucheniy) Moscow, Atomizdat, 1964. 134/p. illus., biblio. 4500 copies printed.

TOPIC TAGS: radiation dosimetry, ionizing radiation, nuclear radiation, radiation protection, radioisotope, radiation hazard

PURPOSE AND COVERAGE: This collection of problems is intended for students and others concerned with radioisotopes, dosimetry, and protection against nuclear radiation. The textbook contains about 400 fundamental problems and their answers on dosimetry and radiation protection, together with the fundamental formulas and relationships needed for the solution of these problems. Some complex auxiliary problems are also included. Course materials, used over a period of years in the Moscow Physics and Engineering In-

L 3143-66							
AM5020747							0
stitute, have	e been availed s are mentioned	of in the	compila	tion o	f this	book.	No
TABLE OF CONTEN	ITS: [Abridged	1					
Foreword 3							
Principal Symbo	ols 5	•	•				
Ch. I. Physica	l Fundamentals	of Dosime	try and	Prote	ction -	7	
Ch. II. Dosime							:
4	ction against					•	
			U.2.		-		
Appendixes 9	9		J2			•	
- f							
Appendixes 9 Bibliography Answers 133							
Appendixes 9 Bibliography							

	L AN50207	*** **********		•	The security of the effect of the second specimens.	وبود و درود و دولو و دولو			*	100			
	SUB COD	E: NPN			SUBMI	TTED:	17Ju	n64	NO	REF	sov:	022	
•	OTHER:	800				r.							
					•				,	•			
			•	•									
								· / /	•				
1								1. 1.	•				
	Card 3/3				•					į			

_	是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就	
	7 1144 44 mm/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NS.
	L 1165-66 EWT(m)/EPF(c)/EWP(j) DIAAP RM	
	ACCESSION NR: AT5023152 UR/2892/65/000/004/0078/0082	
	AUTHOR: Gusev, N. S.; Ivanova, Z. M.; Konstantinov, I. Ye.	
	TITLE: Anticoincidence gamma spectrometer with shielded scintillator BY	
	SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zash-chity ot izlucheniy, no. 4, 1965, 78-82	
	TOPIC TAGS: gamma spectrometer, scintillation spectrometer, shielding, gamma ray, cesium, zinc, particle counting	
	ABSTRACT: The article gives a schematic diagram of a modern gamma spectrometer with shielded scintillator. The crystal analyzer (NaI(TI) and the photomultiplier are located inside the shielded scintillator. Since the dimensions of the shielded scintillator are usually large (sometimes more than 50 cm), several photomultipliers are generally used to collect light and the amplitudes of their impulses are added. The optionizations achieves are added.	
	impulses are added. The anticoincidence scheme is governed by a multichannel amplitude analyzer. Impulses from the NaI (TI) crystal are analyzed only when	
L	Conditions.	
	Card 2/3	-

	ION NR: AT5023152			0
	ATION: None TED: 00	ENCL: 00	SUB CODE: NP	
NR REF	'SOV: 000	OTHER: 009		
		り 集からから (1) 金数 (2) (1) (1) (2) (2) Pada (1) (1) (1) (2)		
Card 3/3	JP		•	

GAVRUSEVA, Antonina Ivanovna; KONSTANTINOV, Ivan Yur'yevich; SARANTSEV, Yu.S., red.; VOROB'YEVA, L.V., tekhn. red.

[New types of tank cars]Novye tsisterny. Moskva, Transzheldorizdat, 1962. 32 p. (MIRA 16:1) (Tank cars)

IVANOV, As., KONSTANTINOV, K.

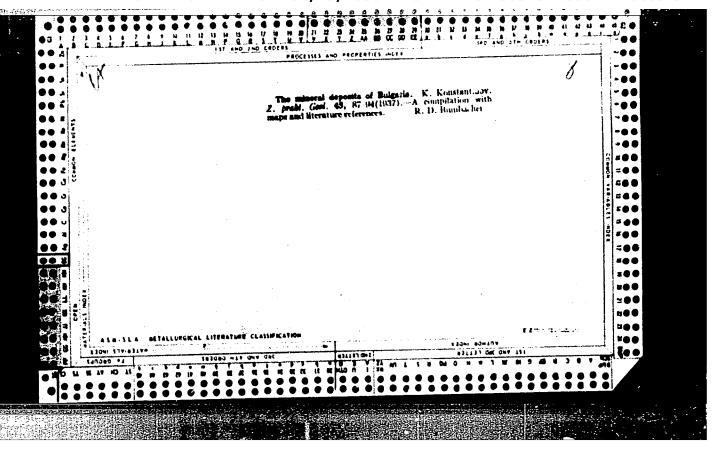
Effect of certain blocking substances on diuresis. Khirurgiia, Sofia 13 no.5:505-511 .60.

MIUCHKOV, Khr.,.; DESPOTOV, B.; KONSTANTINOV, K.

Contact beta therapy with radioactive phosphorus (P32) in some cutaneous chronic diseases. Dermato vener Socia 2 no.3:112-114 '63.

- 1. Chlen na Redaktsionen suvet, "Dermatologiia i venerologiia"
- (for Konstantinov).

 2. Iz OOD Burgas (gl.lekar N.Kolev), OKVD Burgas (gl.lekar K. Konstantinov), Gr. ob. b-tsa Burgas (gl.lekar P. Ipokdzhiian).

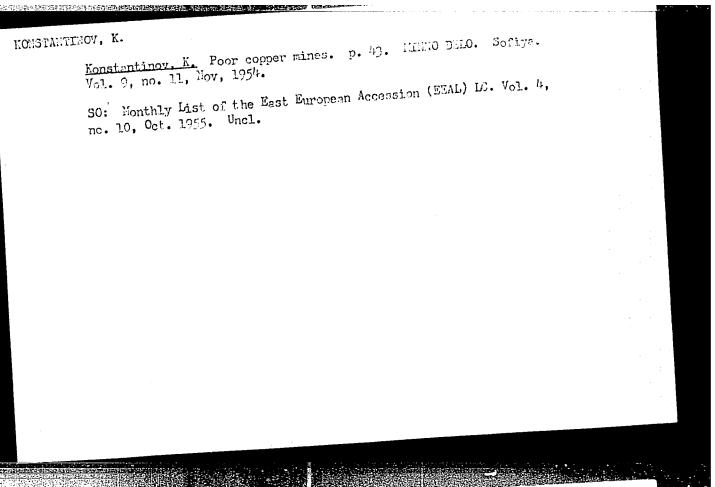


MONSTANTINOV, K. "New Soviet Theories on Ore Deposits", P. 49, (MINNO DEIO, Vol. 9, No. 4, April 1954, Sofiya, Bulgaria) SO: Monthly List of East European Accessions (EFAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

KONSTANTINOV, K.

"China's Mining Industry and Metallurgy. Tr. from the Russians", P. 59, (MINNO DELO, Vol. 9, No. 4, April 1954, Softya, Pulgaria)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.



KONSTANTINOV, K.

Limits for the economical supplying of coal from different mines. p. 33. (Tekhnika, Vol. 5, no. 6, Nov./Dec. 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

KONSTANTINOV, K.

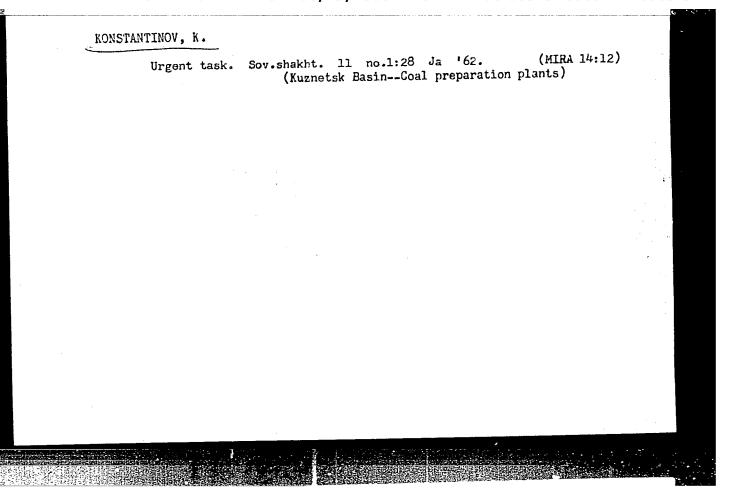
"A comparative analysis of the correlation between expenses and production value for certain types of copper deposits."

p. 78 (Minno Delo, Vol. 12, no. 4, 1957, Sofiia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

After one ye	ar in Mine no.37. Mast.ug	1. 9 no.6:11 Je '60. (MIRA 13:7)	
	(Moscow Basin-Coal mines	and mining)	
		•	

-KONSTANTINOV, K. (Tashkent) This is your mistake, weather forecasters. Grazhd.av. 18 0.2:19
(MIRA 14:3) (Meteorology in aeronautics)



KONSTANTINOV, K.

Operating conditions and parameters in electric-power plants with leveled waters. p. 10. ELEKTRONENERGIIA. Sofiya. Vol. 7, no. 3/4, Yar./Apr. 1956.

SOURCE: East European Accessions List. (EEAL) Library of Congress. Vol. 5, No. 8, August 1956.

KONSTANTINOV, K.

Complete usage of the Batak and Stalin dams. p. 68.

KHIDROTEKHNIKA I MELIORATSII, SOFIA, Bulgaria, Vol. 1, no. 3, 1959

Monthly List of Each European Accessions (EFAI) LC, VOL. b, No. 10, Oct. 1959 UNCL.

KONSTANTINOV, K.

TECHNOLOGY

Periodicals ELEKTROENERGIIA. Vol. 10, no. 1, Jan. 1959

KONSTANTINOV, K. General economic principles for electric-power plant projects. p. 3.

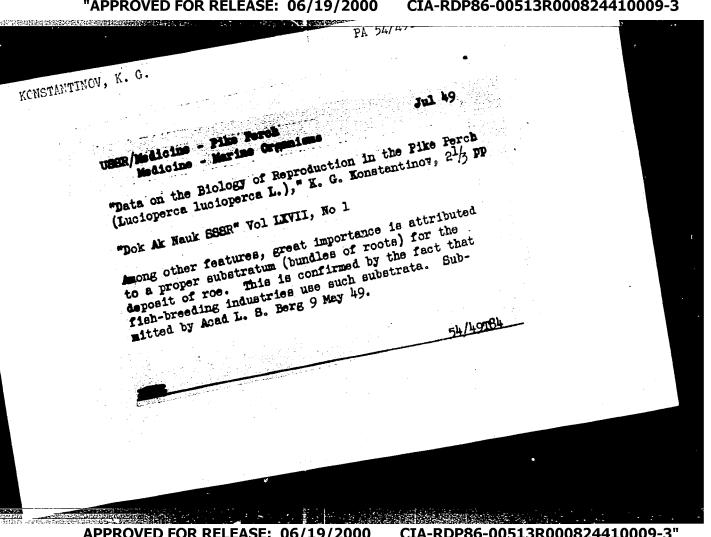
Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

KONSTANTINOV, K.

"General economic principles for planning electric-power stations, planning electric-power pumping stations."

ELEKTROENERGIIA, Sofiia, Bulgaria, Vol. 10, no. 3, Mar. 1959.

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas



CIA-RDP86-00513R000824410009-3" APPROVED FOR RELEASE: 06/19/2000